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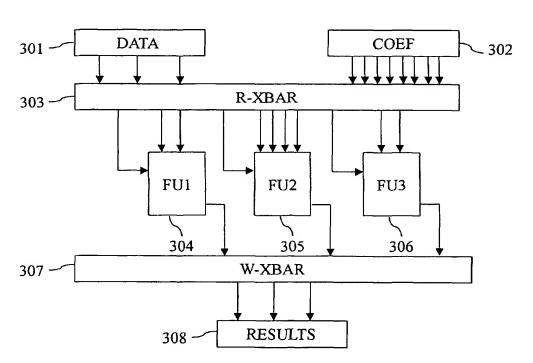
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(54) Title: DATA PROCESSING CIRCUIT



(57) Abstract: The invention relates to a data processing system for performing a polyphase filtering. This circuit comprises functional units (304, 305, 306) able to perform polyphase filterings, and a memory device (301, 302, 308) for storing data and coefficients. The functional units receive in parallel data and coefficients coming from the memory device, calculate results from the data and coefficients and supply these results to the memory device.





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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{tabular}{ll} Minimum documentation searched (classification system followed by classification symbols) \\ IPC 7 H03H \\ \end{tabular}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	EP 0 942 530 A (KONINKL PHILIPS ELECTRONICS NV) 15 September 1999 (1999-09-15) paragraph '0014! - paragraph '0018!; figure 2	1-8
А	US 5 383 145 A (SAKIYAMA SHIRO ET AL) 17 January 1995 (1995-01-17) cited in the application column 4, line 3 - column 6, line 63; figures	1-8
Α	US 2001/007573 A1 (KINGSTON SAMUEL C ET AL) 12 July 2001 (2001-07-12) paragraph '0059! - paragraph '0069!; figures 1B,3A,7	1-8
	-/	

Y Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer D/L PINTA BALLE, L

INTERNATIONAL SEARCH REPORT

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Determent to all-1 11-
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Retevant to claim No.
	US 4 785 411 A (GERGEN JOSEPH P ET AL) 15 November 1988 (1988-11-15) column 3, line 39 - column 4, line 55 column 6, line 65 - column 7, line 37 figures 2,6	1,3-8

INTERNATIONAL SEARCH REPORT

tation on patent family members

_		auon on patent family members		II	/IB 03/03061	
Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
EP 0942530	A	15-09-1999	FR EP JP US	2776093 A1 0942530 A1 11328154 A 6308191 B1	17-09-1999 15-09-1999 30-11-1999 23-10-2001	
US 5383145	Α	17-01-1995	NONE			
US 2001007573	A1	12-07-2001	US AU WO	6201843 B1 1227600 A 0051250 A1	13-03-2001 14-09-2000 31-08-2000	
US 4785411	A	15-11-1988	NONE			

nal Application No